AUTODOC CLUB

How to change front wheel bearing on **Ford Mondeo BWY** – replacement guide

VIDEO TUTORIAL

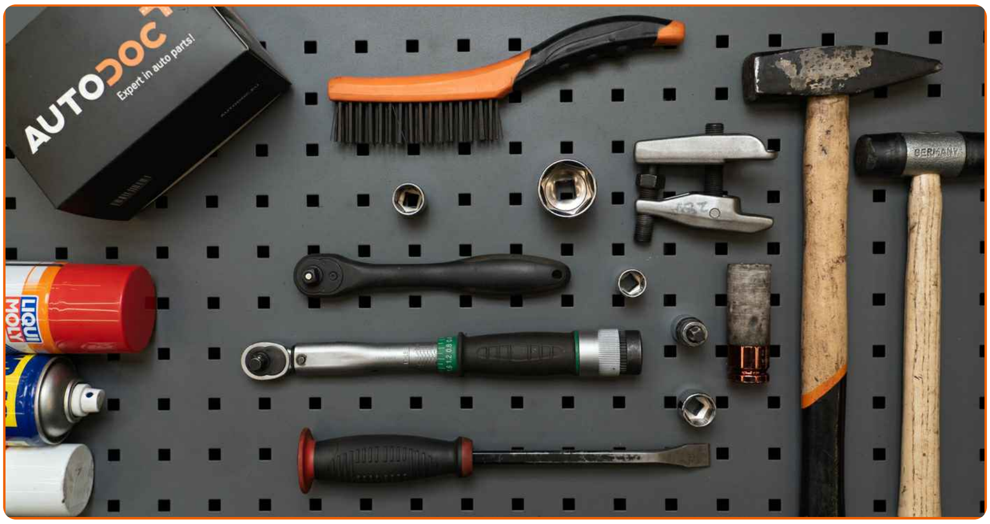


Important!

This replacement procedure can be used for:
FORD MONDEO III Estate (BWY) 2.2 TDCi, FORD MONDEO III Saloon (B4Y) 1.8 16V, FORD MONDEO III Saloon (B4Y) 2.0 16V, FORD MONDEO III Saloon (B4Y) 2.5 V6 24V, FORD MONDEO III Saloon (B4Y) 2.0 16V DI / TDDi / TDCi, FORD MONDEO III Saloon (B4Y) 2.0 16V TDDi / TDCi, FORD MONDEO III (B5Y) 1.8 16V, FORD MONDEO III Estate (BWY) 1.8 16V, FORD MONDEO III (B5Y) 2.0 16V, FORD MONDEO III Estate (BWY) 2.0 16V, FORD MONDEO III (B5Y) 2.5 V6 24V, FORD MONDEO III Estate (BWY) 2.5 V6 24V, FORD MONDEO III (B5Y) 2.0 16V DI / TDDi / TDCi, FORD MONDEO III Estate (BWY) 2.0 16V DI / TDDi / TDCi, FORD MONDEO III (B5Y) 2.0 16V TDDi / TDCi, (+ 18)

The steps may slightly vary depending on the car design.

REPLACEMENT: WHEEL BEARING – FORD MONDEO BWY. TOOLS YOU MIGHT NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Torx bit T55
- Drive socket # 15
- Drive socket # 17
- Drive socket # 18
- Drive socket # 32
- Wheel impact socket #19
- Ratchet wrench
- Torque wrench
- Ball joint puller
- Flat Screwdriver
- Crow bar
- Hammer
- Rubber mallet
- Bush and bearing driver set
- Wheel chock

BUY TOOLS

Replacement: wheel bearing – Ford Mondeo BWY. AUTODOC recommends:

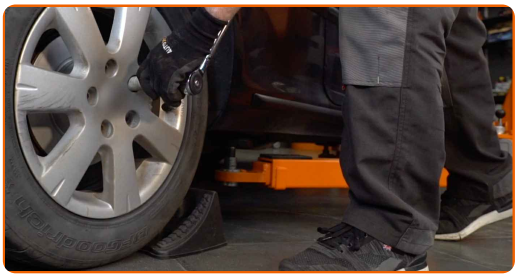
- Do not re-use the bearing assembly of your Ford Mondeo BWY car.
- The wheel hub bearing replacement procedure is identical for both wheels on the same axle.
- Warning! Shut down the engine before starting any work – Ford Mondeo BWY.

CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

1 Secure the wheels with chocks.



2 Loosen the wheel mounting bolts. Use wheel impact socket #19.



3 Raise the front of the car and secure on supports.

4

Unscrew the wheel bolts.



AUTODOC recommends:

- Important! Hold the wheel while unscrewing the fastening bolts. Ford Mondeo BWY

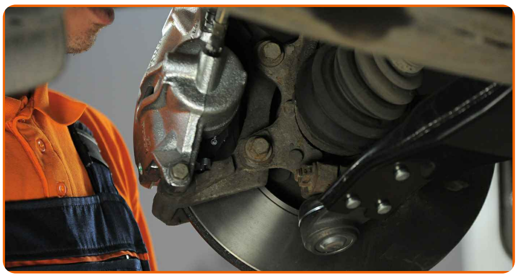
5

Remove the wheel.



6

Clean the brake caliper bracket fasteners. Use a wire brush. Use WD-40 spray.



7

Unscrew the caliper bracket fastening. Use a drive socket #15. Use a ratchet wrench.



8 Remove the fastening bolts (2 pieces).

9 Remove the brake caliper together with its bracket.



Replacement: wheel bearing – Ford Mondeo BWY. Professionals recommend:

- Tie the caliper to the suspension or to the body with a wire without disconnecting from the brake hose to prevent depressurization of the brake system.
- Make sure that the brake caliper is not hanging on the brake hose.
- Don't press the brake pedal after the brake caliper has been removed. As a result, the piston can fall out from the brake cylinder, and brake fluid leakage and depressurization of the system may occur.
- Check the brake caliper bracket, brake caliper guide pins and boots. Clean them. Replace, if necessary.

10 Remove the brake disc.



11 Detach the ABS sensor connector. Use a flat screwdriver.



12 Clean the fastener of the driveshaft. Use a wire brush. Use WD-40 spray.



13 Unscrew the fastener connecting the drive shaft to the wheel hub. Use a drive socket #32. Use a ratchet wrench.



14 Remove the fastening nut.

15 Clean the fastener connecting the tie rod end to the steering knuckle. Use a wire brush. Use WD-40 spray.



16 Unscrew the end fastening nut to the steering knuckle. Use a drive socket #17. Use a ratchet wrench.



17 Disconnect the tie rod end from the steering knuckle. Use a ball joint puller.



18 Clean the fastener connecting the ball joint to the steering knuckle. Use a wire brush. Use WD-40 spray.



19 Unscrew the ball joint fastening to the steering knuckle. Use Torx T55. Use a drive socket #18. Use a ratchet wrench.



20 Remove the fastening bolt.

21 Disconnect the ball joint from the steering knuckle. Use a crowbar.



22 Detach the driveshaft from the steering knuckle.

Replacement: wheel bearing – Ford Mondeo BWY. AUTODOC experts recommend:

- If necessary, use a rubber mallet.
- Make sure that the drive shaft is not unloaded (when the car is jacked).

23 Clean the fasteners connecting the shock strut to the steering knuckle. Use a wire brush. Use WD-40 spray.



24 Unscrew the lower fastener connecting the shock strut to the steering knuckle. Use a drive socket #15. Use a ratchet wrench.



25 Remove the fastening bolt.



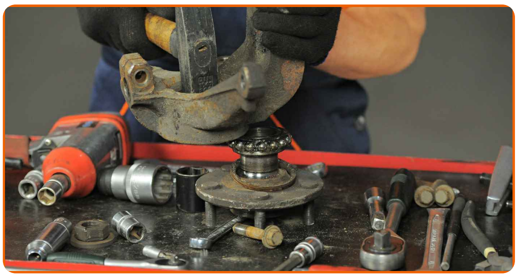
26 Disconnect the steering knuckle from the shock absorber strut. Use a hammer.



27 Remove the steering knuckle together with the hub.



28 Remove the wheel hub from the steering knuckle. Use a bush and bearing driver set. Use a hammer.

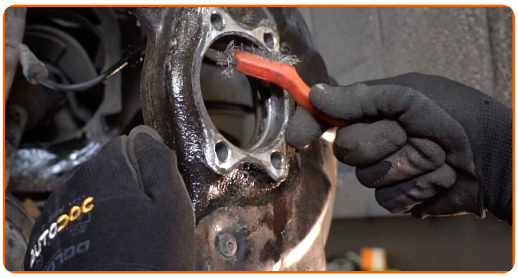


29 Pull the bearing inner race out of the wheel hub. Use a hammer.

30 Press out the wheel hub bearing. Use a bush and bearing driver set.



31 Clean the hub bearing mounting seat. Use a wire brush. Use WD-40 spray.



32 Press the new bearing in the steering knuckle. Use a bush and bearing driver set. Use a hammer.



Replacement: wheel bearing – Ford Mondeo BWY. Tip:

- Check to make sure the wheel hub bearing is positioned correctly. Avoid its misalignment.
- Stop pressing on the surface of the bearing immediately after it has been fitted into its mounting seat.

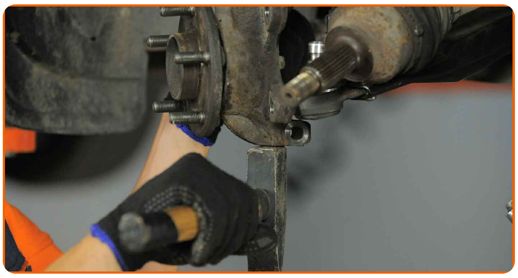
33 Install the wheel hub on the steering knuckle. Use a bush and bearing driver set.



34 Install the steering knuckle with a hub in assembly.



35 Fix the shock absorber strut on the steering knuckle. Use a hammer.

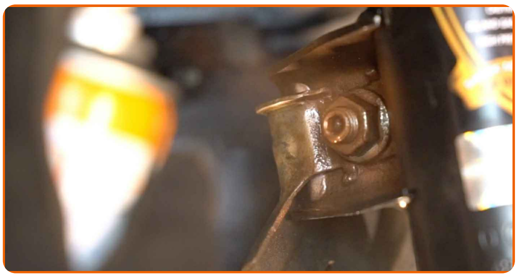


36 Install the fastening bolt. Use a hammer.

37 Tighten the lower fasteners connecting the shock strut to the steering knuckle. Use a drive socket #15. Use a torque wrench. Tighten it to 83 Nm torque.



38 Treat the shock strut fasteners. Use copper grease.



39 Clean the splines of the drive shaft CV joint. Use a wire brush. Use WD-40 spray.

40 Mount the drive shaft into the wheel hub.



41 Connect the ball joint to the steering knuckle. Use a crowbar. Use a hammer.



42 Install the fastening bolt. Use a hammer.

43 Tighten the ball joint fastener. Use Torx T55. Use a drive socket #18. Use a torque wrench. Tighten it to 83 Nm torque.



44 Attach the ABS sensor connector.

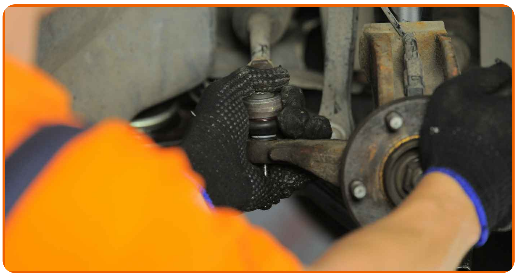


45 Install the fastening nut.

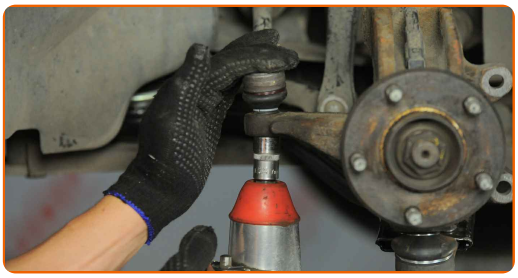
46 Tighten the drive shaft nut. Use a drive socket #32. Use a torque wrench. Tighten it to 290 Nm torque.



47 Connect the tie rod end to the steering knuckle.



48 Tighten the fastening nut connecting the tie rod end to the steering knuckle. Use a drive socket #17. Use a torque wrench. Tighten it to 40 nm torque.



49 Treat the fastener connecting the tie rod end to the steering knuckle. Use copper grease.

50 Clean the hub. Use a wire brush. Treat the contacting surface. Use copper grease.



51 Install the brake disc.



52 Clean the mounting seats of the caliper and its bracket. Use a wire brush. Use WD-40 spray.

53 Install the brake caliper together with its bracket.



54 Install the fastening bolts (2 pieces).

55 Tighten the brake caliper bracket. Use a drive socket #15. Use a torque wrench. Tighten it to 75 Nm torque.



56 Treat the surface where the brake disc contacts the wheel rim. Use copper grease.



57 Clean the brake disk surface. Use a brake cleaner.



AUTODOC recommends:

- Replacement: wheel bearing – Ford Mondeo BWY. After applying the spray, wait a few minutes.

58 Install the wheel.



Replacement: wheel bearing – Ford Mondeo BWY. Tip from AUTODOC:

- To avoid injury, hold up the wheel when screwing in the fastening bolts.

59 Screw in the wheel bolts. Use wheel impact socket #19.



60 Lower the car and working in a cross order, tighten the wheel bolts. Use wheel impact socket #19. Use a torque wrench. Tighten it to 90 nm torque.



61 Remove the jacks and chocks.

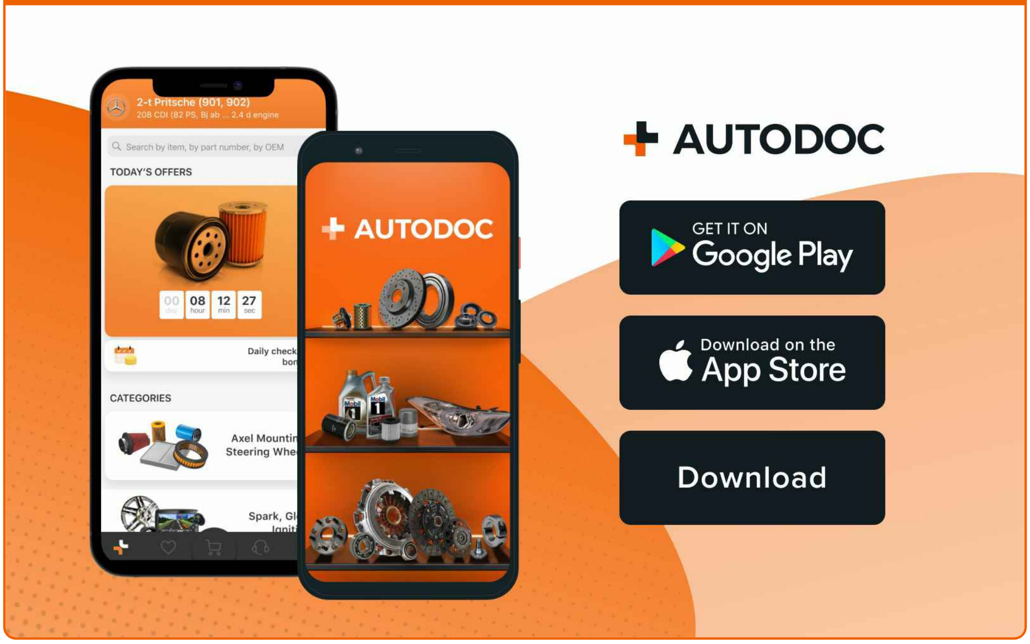


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